ABSTRACT OF THE DISCLOSURE

A CMP slurry for ruthenium titanium nitride and a polishing process using the same. In a process technology below 0.1µm, when a capacitor using a $(Ba_{1-x}Sr_x)TiO_3$ film as a dielectric film is fabricated, the slurry is used to polish a ruthenium titanium nitride film deposited as a barrier film according to a CMP process. The CMP process is performed by using the slurry, to improve a polishing speed of ruthenium titanium nitride under a low polishing pressure. In addition, the CMP process is performed according to an one-step process by using one kind of slurry. As a result, defects on an insulating film are reduced and a polishing property is improved, thereby simplifying the CMP process.

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